



**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.07.2012

Revision: 01.07.2012

**1 Identification of the substance/preparation and of the company/undertaking**

- **Product details**
- **Trade name:** Water Test Solution
- **Application of the substance / the preparation:** Laboratory chemicals
- **Supplier:**  
ZEMATRA bv  
Steenspil 28  
4661 TZ Halsteren  
The Netherlands  
tel.: +31 164 687770  
Fax.: +31 164 680512  
E-mail: info@zematra.com  
www.zematra.com
- **Further information obtainable from:** product safety department
- **Information in case of emergency:** Supplier: Zematra bv

**2 Hazards identification**

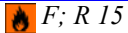
- **Hazard description:**
- |  |  |  |  |
|--|--|--|--|
|  |  |  | Xi Irritant<br>F Highly flammable<br>N Dangerous for the environment |
|--|--|--|--|

- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
R 15 Contact with water liberates extremely flammable gases.  
R 38 Irritating to skin.  
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**3 Composition/information on ingredients**

- **Chemical characterization**
- **Description:** Dispersion of calcium hydride in paraffin oil

· **Dangerous components:**

CAS: 7789-78-8 EINECS: 232-189-2	calcium hydride		30%
CAS: 8012-95-1 EINECS: 232-384-2	Paraffin oils		70%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

**4 First-aid measures**

- **After inhalation:** Supply fresh air or oxygen; call for doctor.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.

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· **After swallowing:** Do not induce vomiting; call for medical help immediately.

**5 Fire-fighting measures**

- **Suitable extinguishing agents:**  
CO2, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Prevent seepage into sewage system, workpits and cellars.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents  
Dispose of the material collected according to regulations.

**7 Handling and storage**

- **Handling:**
- **Information for safe handling:** Work only in fume cupboard.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Storage as usual for laboratory reagents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

**8 Exposure controls/personal protection**

· **Additional information about design of technical facilities:** No further data; see item 7.

· <b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>8012-95-1 Paraffin oils</b>	
OEL (Great Britain)	Long-term value: 5 mg/m <sup>3</sup>
<b>7789-78-8 calcium hydride</b>	
OEL (Great Britain)	Long-term value: 5 mg/m <sup>3</sup>

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.

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**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection: Safety glasses**

**9 Physical and chemical properties**

**General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

**Change in condition**

**Boiling point/Boiling range:** > 200°C

**Flash point:** 215°C

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion risk but in contact with water it liberates highly flammable gases.

**Density at 20°C:** 0.87 g/cm<sup>3</sup>

**Solubility in / Miscibility with water:** Not miscible or difficult to mix.

**Solvent content:**

**Organic solvents:** 0.0 %

**Solids content:** 30.0 %

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Acids, acid anhydrides, oxidising agents, alcohols, water.
- **Dangerous reactions** Contact with water releases flammable gases.
- **Dangerous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

**Acute toxicity:**

**LD/LC50 values relevant for classification:**

Oral	LD50	3900 mg/kg (mouse)
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- **Primary irritant effect:**
- **on the skin:** Irritating effect
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

### 12 Ecological information

- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 4.3 (3148) Substances which, in contact with water, emit flammable gases.
- **UN-Number:** 3148
- **Packaging group:** I
- **Description of goods:** 3148 WATER-REACTIVE LIQUID, N.O.S. (calciumhydride mixture)

- **Maritime transport IMDG:**
- **IMDG Class:** 4.3 PG: I
- **UN Number:** 3148
- **Marine pollutant:** No
- **Proper shipping name:** WATER-REACTIVE LIQUID, N.O.S. (calciumhydride mixture)

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 4.3 PG: I
- **UN/ID Number:** 3148
- **Proper shipping name:** WATER-REACTIVE LIQUID, N.O.S. (calciumhydride mixture)
- **Remarks:** P.I. -PAX: Forbidden  
P.I.-CAO: refer to IATA dangerous goods regulations.

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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· **Code letter and hazard designation of product:**

*Xi Irritant*

*F Highly flammable*

*N Dangerous for the environment*

· **Risk phrases:**

15 *Contact with water liberates extremely flammable gases.*

38 *Irritating to skin.*

50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

· **Safety phrases:**

7/8 *Keep container tightly closed and dry.*

24/25 *Avoid contact with skin and eyes.*

33 *Take precautionary measures against static discharges.*

43 *In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.*

60 *This material and its container must be disposed of as hazardous waste.*

· **National regulations:**

· **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing MSDS:** *Environment protection department.*